

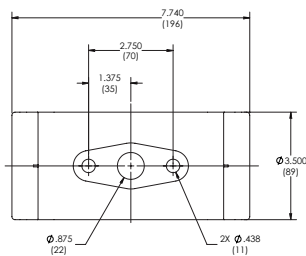
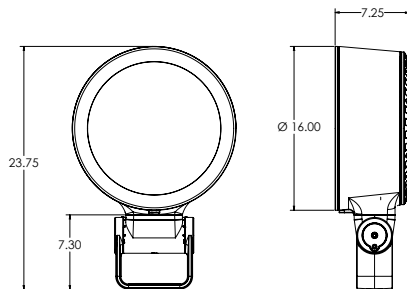


Specifications

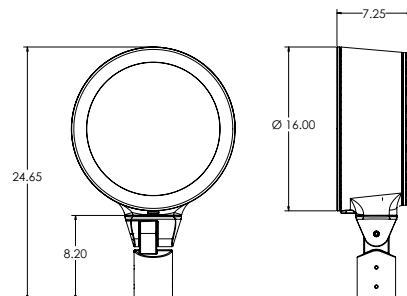
Weight: 66lbs.

EPA: KTM: 2.00
YM: 2.10

DIMENSIONS



YOKE



KNUCKLE

SAF28A RGBW SPECIALTY ARCHITECTURAL FLOOD AURORA MVOLT LED

HIGHLIGHTS

- The Aurora is a patent-pending lighting technique that blends wash and graze from two beams within a single luminaire, creating a refined, layered gradient effect.
- Available in 3 distribution options: Narrow, Medium, and Wide.
- Ideal for wall washing or column washing applications with excellent uniformity
- Suitable for a variety of mounting applications including ground, wall, pole, stanchion
- DMX/RDM
- Taper-Lock technology provides full aiming integrity utilizing both a rugged knuckle and yoke design
- Minimalist design that provides clean and intentional lines and transitions
- Industry leading flow-thru design achieved with separately sealed optical chamber and driver
- Quad chip technology, enabling optimal color mixing under each individual optic. Avoid striations and color separation when wall grazing/washing
- Power Scaling driver technology allows each channel to reach its highest possible wattage and output, maximizing performance



5
YEAR
warranty

IP68



BAA

BABA

PERFORMANCE SUMMARY

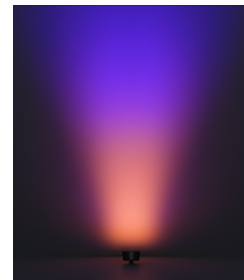
	Narrow (NA)			Medium (MA)			Wide (WA)		
	Delivered Lumens	Watts	LPW	Delivered Lumens	Watts	LPW	Delivered Lumens	Watts	LPW
RED	2,560	85	30	2,326	85	27	2,240	85	26
GREEN	5,004	82	61	4,546	82	55	4,378	82	53
BLUE	919	96	10	835	96	9	804	96	8
White (40K)	4,960	92	54	4,505	92	49	4,339	92	47
All On (RGBW4)	4,255	76	56	3,864	76	51	3,722	76	49

* Based on fixture with both channels on (near and far beams)

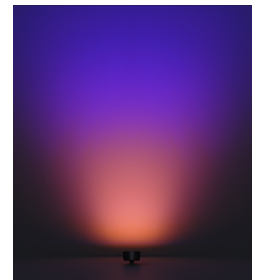
STANDARD DISTRIBUTION



Narrow



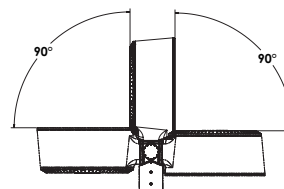
Medium



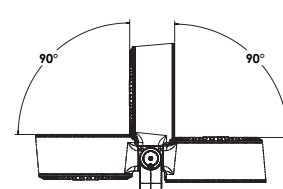
Wide

AIMING DETAIL

SAF28 KNUCKLE



SAF28 YOKE



ORDERING INFORMATION

EXAMPLE: SAF28A LED P1 RGBW4 MVOLT WA FLC KTM CPM DMX BL

SAF28A											
Series*		Source*	Performance Packages*	LED Dynamic Range*		Voltage*	Distribution*		Lens*		Mounting*
SAF28A Specialty Architectural Flood Aurora		LED	P1	RGBW4 40K white (80CRI)		MVOLT	NA	Narrow Aurora	FLC Flat Lens Clear Note: FLC lens IK08. For IK10 use external WRG option.	KTM	Knuckle Tenon Mount
							MA	Medium Aurora		YM	Yoke
							WA	Wide Aurora			
Mounting Accessories		Options Accessory		Options		Control Input*		External		Finish*	
CPM	Cylindrical Pedestal Mount	Hardware		CSL	10' - 50' of cord available in 5' increments	DMX		GS	Glare shield	BL	Black Textured
CPMSA	Cylindrical Pole Mount Splice Access	TPH Tamper proof hardware		Note: Cord length required for Yoke Mounting only				WRG	Wire Rock Guard	BRS	Bronze Smooth
CSM	Cylindrical Stancion Mount 12"-48" available in 6" increments								Note: WRG is installed and shipped with the fixture	BRT	Bronze Textured
CWMA_T	Cylindrical Wall Mount Arm Top 12", 18" and 24"									CF	Custom Finish
PAR/_	Pole Arm Mounting for Round Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"									DBL	Black Smooth
PAS/_	Pole Arm Mounting for Square Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"									DDB	Designer Bronze
PATR/_	Pole Arm Twin Mounting for Round Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"									DNA	Natural Aluminum
PATS/_	Pole Arm Twin Mounting for Square Poles, available to use with 4", 5", 6" pole and available in lengths of 12", 18", 24"									NBS	Natural Bronze Smooth
TNM	Tenon Mount									VET	Verde Textured
										WH	White Textured
										WHS	White Smooth
										_Z	Zinc Undercoat (i.e.BLZ)
										Note: Zinc Undercoat provides corrosion protection for Marine Environment and Natatorium Construction	
										CF	Custom Finish
										RALTB	RAL Paint Finishes
										Note: RALTB for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.	

*Required Fields

CSA LISTING TEMPERATURE: -40°C through 40°C

ELECTRICAL LOAD

Light Engines	System Watts	Current (A)			
		120	208	240	277
RGBW P1	125	1.04	0.60	0.52	0.45

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F)

Ambient		RGBW Lumen Multiplier
0°C	32°F	1.04
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Optical Scaling Charts*

GS	0.96
WRG	0.81

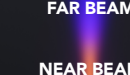
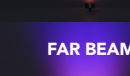
Note: This table can be used to approximate the lumen values with different accessories. Please see IES files for exact lumen outputs.

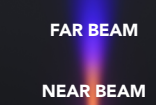
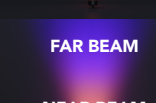
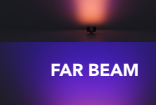
PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com

LUMEN OUTPUT – SAF28A_RGBW

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

	Distribution Type	Channel Setting	RED ONLY				GREEN ONLY				BLUE ONLY			
			System Watts	Lumens	LPW	MAX CD	System Watts	Lumens	LPW	MAX CD	System Watts	Lumens	LPW	MAX CD
 FAR BEAM NEAR BEAM	NA	Near Beam Only	38	896	24	5,544	37	1,752	47	10,836	43	322	7	1,990
		Far Beam Only	48	1,664	35	35,046	47	3,253	69	68,503	54	581	11	12,225
		Near and Far Beams	85	2,560	30	38,970	82	5,004	61	76,172	96	919	10	13,990
 FAR BEAM NEAR BEAM	MA	Near Beam Only	38	814	21	1,488	37	1,591	43	2,909	43	292	7	534
		Far Beam Only	48	1,512	32	8,926	47	2,955	63	17,448	54	543	10	3,205
		Near and Far Beams	85	2,326	27	10,084	82	4,546	55	19,710	96	835	9	3,620
 FAR BEAM NEAR BEAM	WA	Near Beam Only	38	784	21	1,075	37	1,532	41	2,101	43	281	7	386
		Far Beam Only	48	1,456	30	6,231	47	2,846	61	12,180	54	523	10	2,237
		Near and Far Beams	85	2,240	26	7,103	82	4,378	53	13,883	96	804	8	2,550

	Distribution Type	Channel Setting	WHITE ONLY (40K)				ALL ON RGBW4 (Red, Green, Blue, White 40K)			
			System Watts	Lumens	LPW	MAX CD	System Watts	Lumens	LPW	MAX CD
 FAR BEAM NEAR BEAM	NA	Near Beam Only	42	1,736	41	10,740	39	1,489	38	9,212
		Far Beam Only	52	3,224	62	67,894	39	2,765	71	58,238
		Near and Far Beams	92	4,960	54	75,495	76	4,255	56	64,758
 FAR BEAM NEAR BEAM	MA	Near Beam Only	42	1,577	38	2,883	39	1,353	35	2,473
		Far Beam Only	52	2,928	56	17,293	39	2,512	64	14,833
		Near and Far Beams	92	4,505	49	19,535	76	3,864	51	16,757
 FAR BEAM NEAR BEAM	WA	Near Beam Only	42	1,519	36	2,083	39	1,303	33	1,787
		Far Beam Only	52	2,820	54	12,072	39	2,419	62	10,355
		Near and Far Beams	92	4,339	47	13,760	76	3,722	49	11,803

[illegible]

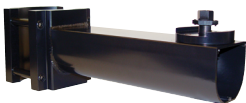
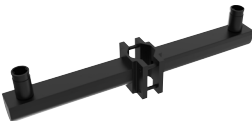
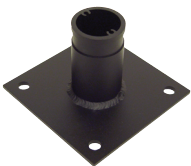
- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
- The Path determines the range of colors the user can select for the luminaire.

ARCHITAINMENT COLOR GPHD

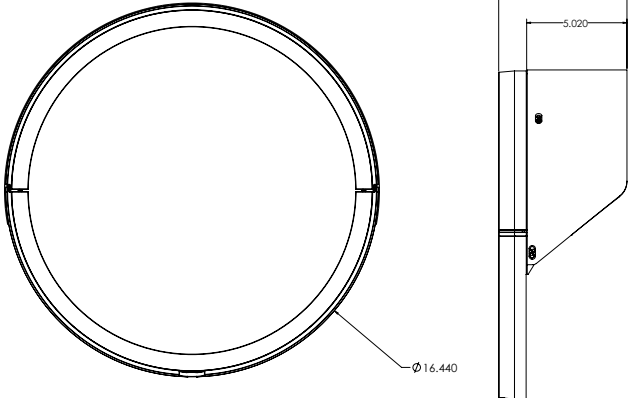
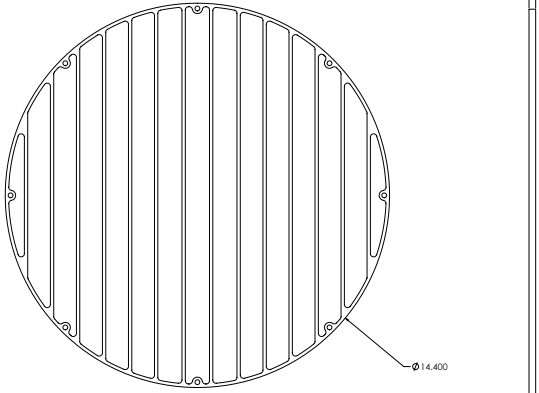
- **Gamut** Triangular
- **Path** Full RGB gamut
- **Handle** Four Handles: Red, Green, Blue, White
- **Data** DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

SAF MOUNTING ACCESSORIES

		Part #
	CPM Cylindrical Pedestal Mount • Suitable for architectural and landscape applications • Provided with front access cover for easy wiring and installation.	Example: CPM TC BL See spec sheet for more options
	CPMSA Cylindrical Pole Mount Splice Access • Designed to mount onto a 2-3/8" tenon • Provided with splice compartment	Example: CPMSA TC DBL See spec sheet for more options
	CSM Cylindrical Stanchion Mount • Available in heights from 12" to 48" in 6" increments • Provided with front access cover for easy wiring and installation.	Example: CSM12 XLSC BRT See spec sheet for more options
	CWMA T Cylindrical Wall Mount Arm End or Top • Available in lengths from 12", 18", 24" • Supplied with splice cover for easy wiring and installation • End mounting only available with SAF7	Example: CWMA12T TC BRS See spec sheet for more options
	PAR/PAS Pole Arm Mounting • Mid pole arms for use on 4", 5", 6" round or square poles • Pole arms lengths available in 12", 18", 24" • One mounting location on the top of each arm	Example: PAR4/12 XLSC BL See spec sheet for more options
	PATR/PATS Pole Arm Mounting • Mid pole arms for use on 4", 5", 6" round or square poles • Pole arms lengths available in 12", 18", 24" • Two mounting locations on the top of each arm	Example: PAT5/18 XLSC BZ See spec sheet for more options
	TNM Tenon Mount • Accepts 2-3/8" tenon mount fixture • Mounts independently over recessed 4-0/4-5 box or conduit stub	Example: TNM BL See spec sheet for more options

EXTERNAL ACCESSORIES

			Part #
	GS- Glare Shield 	Example: GSSAF28A BL	
	WRG-Wire Rock Guard 	WRG is installed and shipped with fixture	

ACCESSORY OPTIONS

TAKE CONTROL

Hydrel lighting solutions bring ease of use, innovation, and next-generation control features to commercial, underwater, and architectural outdoor applications. We offer a dedicated team of specification engineers to take you through lighting design, the specification process, to the installation of our fixtures. We simplify the complex and help you create the right layer of light for any outdoor lighting environment. Find the right architectural outdoor fixture, controls, and network connectivity with Hydrel Lighting Solutions.

FRESCO CONTROL SYSTEM

Series	Model	Options	Finish
FCS	Fresco Control System	7TSN 7" touchscreen with nLight port	X DMX/RDM control
			DBL Black
			DWH White
			DNA Natural Aluminum

Refer to [FRESCO](#) spec sheet for additional details and options.



EASYL - LED SHOW CONTROLLER WITH LCD TOUCHSCREEN

Series	Voltage	Finish
EZSOLO	Easy! Solo	MVOLT 120V-277V VAC, 50/60Hz
EZTOUCH	Easy! Touch	BK Black
EZPRO	Easy! Pro	Wh White

Refer to [EASYL](#) spec sheet for additional details and options.



PATHWAY Connectivity Solutions - DMX networking and advanced control

DMX512 networks create dynamic lighting. Dynamic lighting often brings a lot of color and movement to spaces. The DMX512 lighting protocol was created to serve the needs of performance lighting, such as in theaters or music venues. A DMX network is designed to support large amounts of data continually moving between controllers and luminaires, and at very high speeds. Many non-performance lighting applications also rely on DMX networks, to support RGB LED luminaires featured in applications such as building façades, hotel lobbies and corporate reception areas.

A DMX network always includes a controller and luminaires that are compatible with the DMX protocol. As well, DMX lighting systems must include network devices that route the DMX data to different locations between the controllers and luminaires.

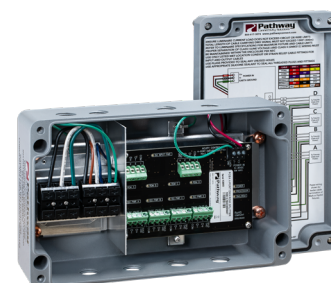
[Pathway Connectivity](#) provides these network devices, creating robust and secure network backbones. Pathway devices create bridges between Ethernet and DMX, and DMX and other kinds of lighting control protocols, such as RDM, nLight® or 0-10v.



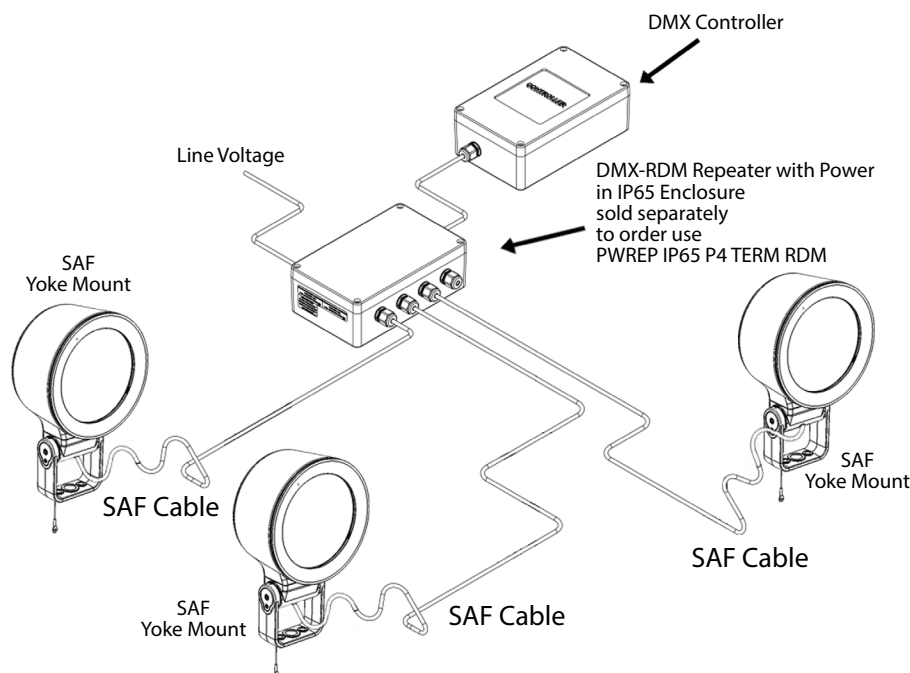
DMX-RDM Repeater with Power in IP65 Enclosure

Model
PWREP IP65 P4 TERM RDM DMX-RDM Repeater with Power in IP65 Enclosure

Refer to [PWREP IP65](#) spec sheet for additional details.



WIRING AND LAYOUT DESIGN



Wiring Detail - DMX RGBW Fixture



FEATURES & SPECIFICATIONS

MATERIAL: Die cast copper-free aluminum (A360) housing & doors with separate optical and driver compartments to ensure thermal isolation of the electronic drivers and LED's.

VOLTAGE: MVOLT 120V-277V.

DISTRIBUTION: Narrow, Medium, Wide

LENS: Molded from heat strengthened borosilicate glass for superior clarity and strength.

MOUNTING: Adjustable knuckle is for mounting over 2-3/8" O.D. tenon. Yoke mount is a 7/8" thru hole center and (2) 7/16" thru holes 2.2" on center. Aluminum knuckle, yoke, & stainless steel locking hardware with infinite aiming adjustment capabilities and a wide array of mounting accessories. Yoke mount luminaires are provided with 10'-50' at 5ft increments of 18 gauge/6 conductor ST cord for power supply and control. Knuckle mount luminaires are provided with 18" leads (18 gauge for power supply and 22 gauge for control). Provided with standard 24" safety cable.

GLARE CONTROL: External glare control option includes half glare shield.

EXTERNAL ACCESSORY: Impact resistant rock guard

FINISH: Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climates without cracking or peeling.

ELECTRICAL: MVOLT (120-277) LED power supply 125 watts, Class 1 electronic driver has a power factor >90%, THD<10%. 10kV surge protection meets a minimum Category C low operation per ANSI/IEEE C62.41.2.

CONTROL: 8 channel system. Channels 1-4 will control the far beam and channels 5-8 control the near beam.

LIGHT SOURCE: Quad Chip RGBW4 (Red, Green, Blue, White 40K) L90 > 35,900 hours at 25°C. All within 3 MacAdam ellipses.

FEATURES: Taper lock knuckle and yoke for infinite aiming and an unparalleled locking ability.

GOVERNMENT PROCUREMENT

BAA – Buy American Act: This product is available in a version that qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS.

BABA – Build America Buy America: This product is available in a version that qualifies as produced in the United States under the definitions of the Build America, Buy America Act, as implemented by 2 C.F.R. Part 184 and other agency implementing regulations, including Department of Transportation regulations.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

LISTING: cCSAus, suitable for outdoor & wet location. IP68 rated.

WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.